

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG092618\  
 Data File : BG036994.D  
 Acq On : 26 Sep 2018 23:04  
 Operator : JU/SJ  
 Sample : PB113238TB  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 27 08:08:59 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 10:41:23 2018  
 Response via : Initial Calibration

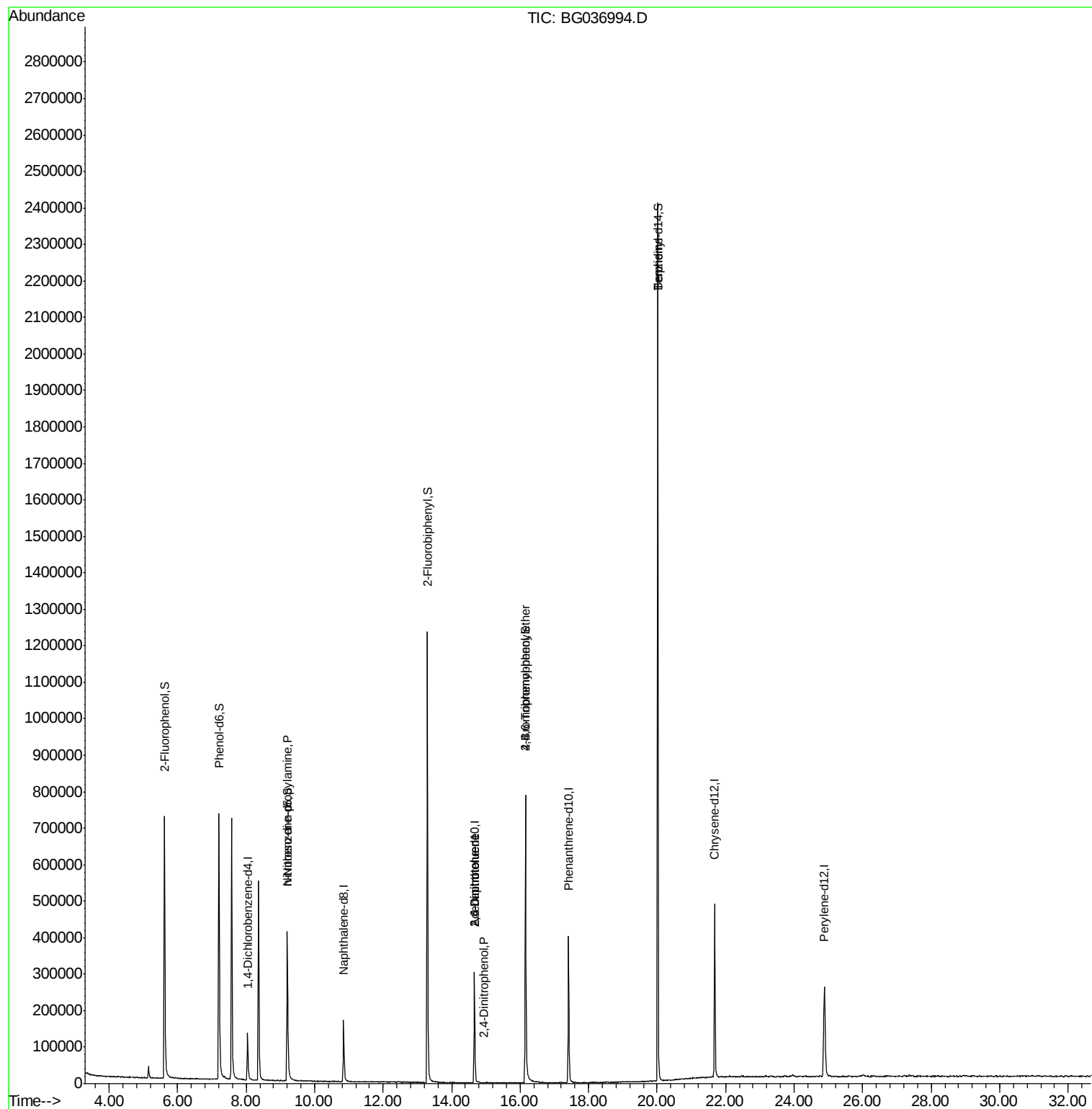
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.04  | 152  | 43180    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 175204   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.67 | 164  | 114986   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.42 | 188  | 293634   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.68 | 240  | 321355   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.88 | 264  | 307281   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 337245   | 149.78 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 468192   | 134.40 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 308928   | 94.42  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 172074   | 125.08 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.29 | 172  | 698888   | 90.53  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.02 | 244  | 1212497  | 99.21  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 41474    | 14.312 | ng    | # 71     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 14347    | 7.105  | ng    | # 20     |
| 53) 2,4-Dinitrophenol          | 14.93 | 184  | 60       | 7.707  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 14348    | 5.092  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 11589    | 3.470  | ng    | # 1      |
| 76) Benzidine                  | 20.02 | 184  | 20468    | 2.107  | ng    | # 95     |

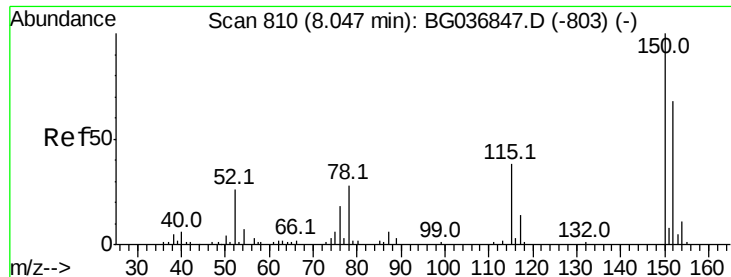
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 27 08:08:59 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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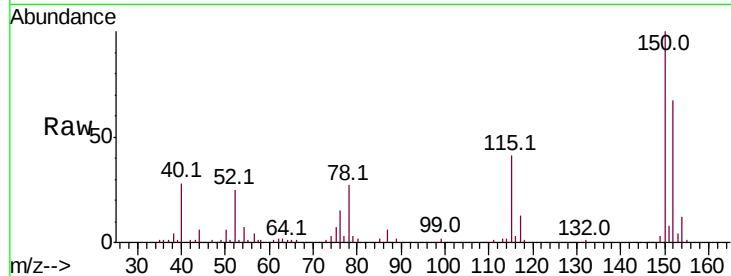


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 809  
Delta R.T. -0.00 min  
Lab File: BG036994.D  
Acq: 26 Sep 2018 23:04

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.9 | 119.5 | 179.3 |
| 115     | 62.0  | 44.5  | 66.7  |

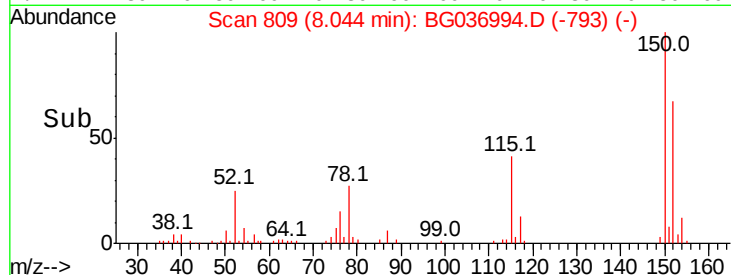
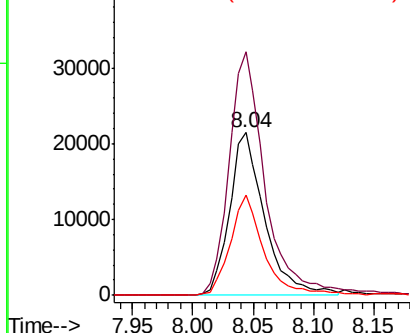


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

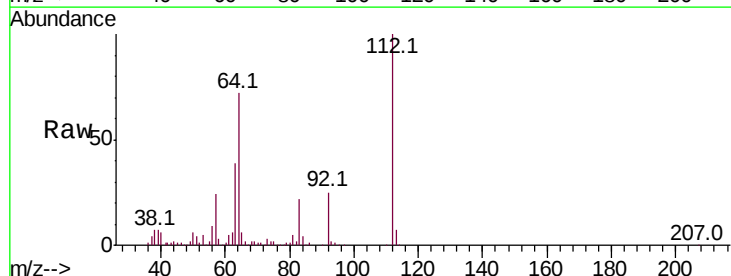
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 149.783 ng  
RT: 5.62 min Scan# 396  
Delta R.T. -0.00 min  
Lab File: BG036994.D  
Acq: 26 Sep 2018 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.6  | 57.2  | 85.8  |
| 63      | 38.8  | 30.8  | 46.2  |

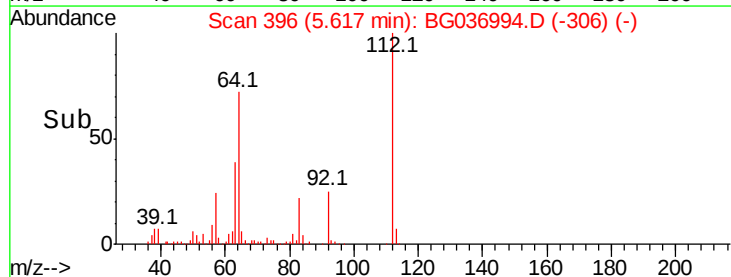
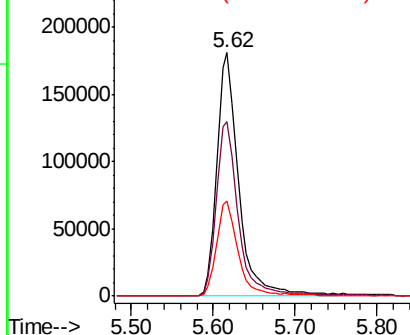


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 134.401 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.01 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

Instrument :

BNA\_G

ClientSampleId :

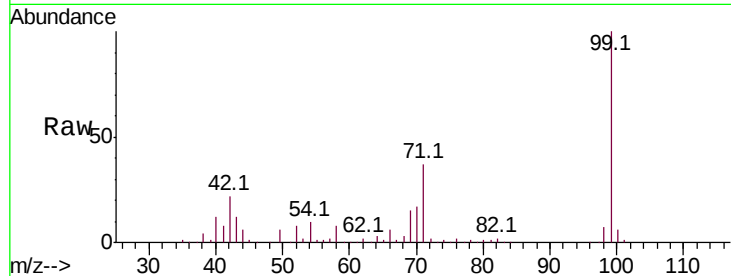
Tot Ion: 99 Resp: 468192

Ion Ratio Lower Upper

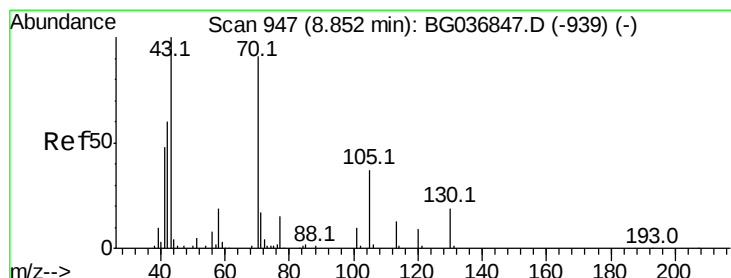
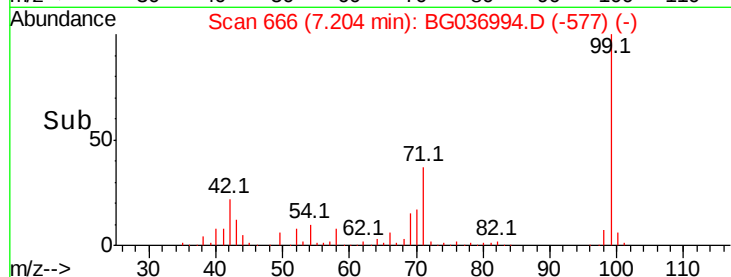
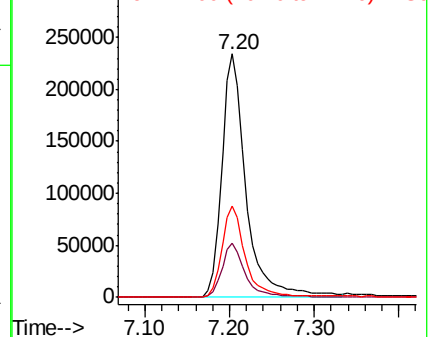
99 100

42 22.2 16.5 24.7

71 37.5 29.4 44.2



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 14.312 ng

RT: 9.20 min Scan# 1006

Delta R.T. 0.35 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

Tgt Ion: 70 Resp: 41474

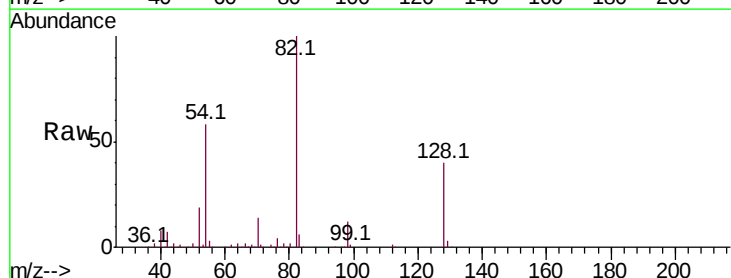
Ion Ratio Lower Upper

70 100

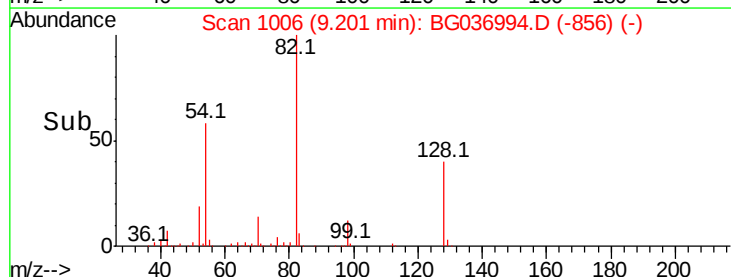
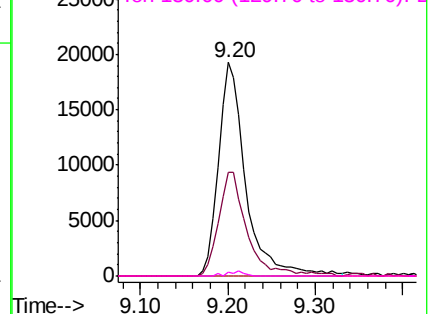
42 48.6 56.2 84.4#

101 0.0 7.8 11.6#

130 1.6 16.2 24.2#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

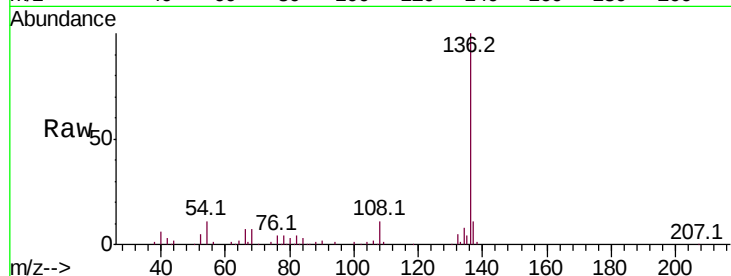




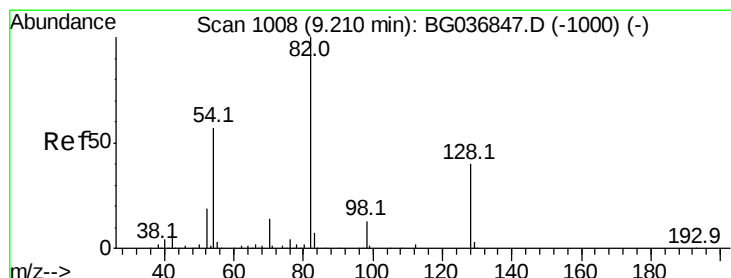
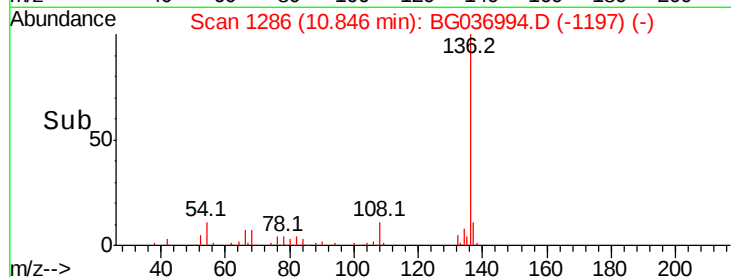
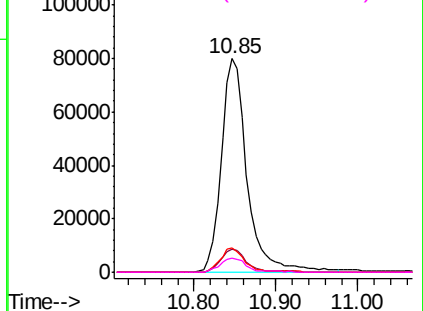
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1286  
Delta R.T. -0.01 min  
Lab File: BG036994.D  
Acq: 26 Sep 2018 23:04

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 175204 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.8   | 13.2   |
| 54       | 11.3  | 9.2   | 13.8   |
| 68       | 6.6   | 5.8   | 8.6    |

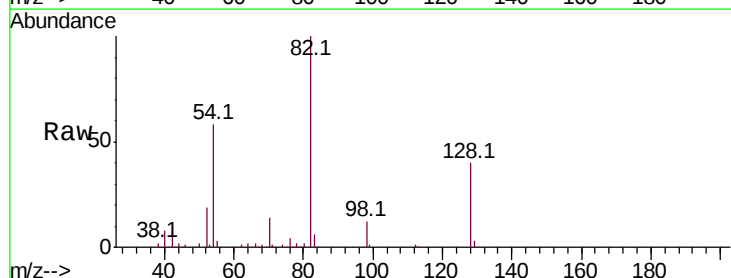


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

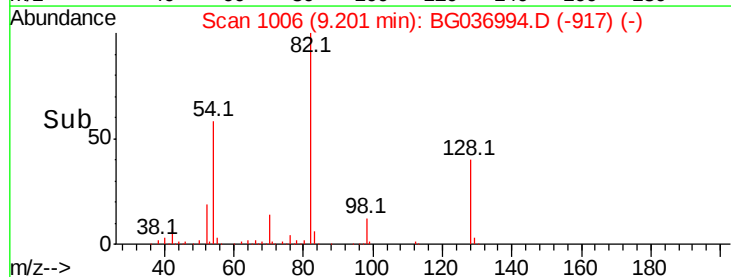
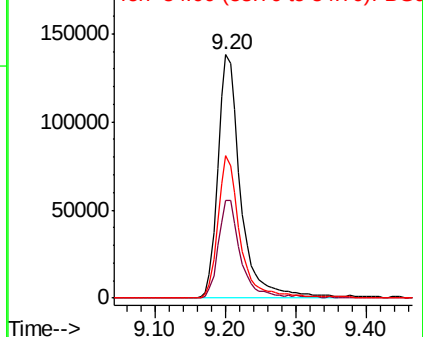


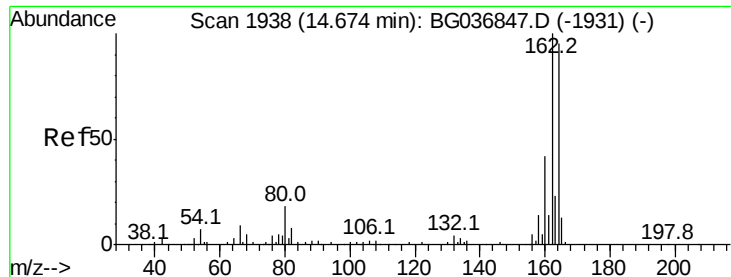
#23  
Nitrobenzene-d5  
Concen: 94.424 ng  
RT: 9.20 min Scan# 1006  
Delta R.T. -0.01 min  
Lab File: BG036994.D  
Acq: 26 Sep 2018 23:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 308928 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.2  | 33.3  | 49.9   |
| 54       | 58.3  | 45.1  | 67.7   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BGC

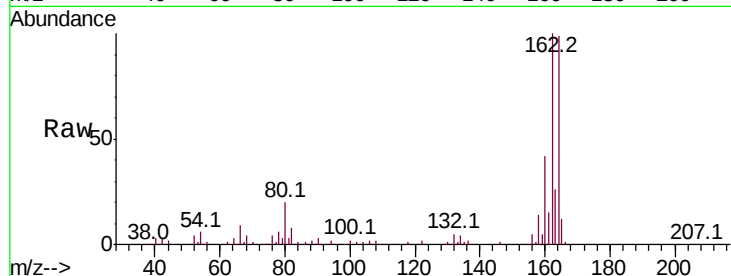




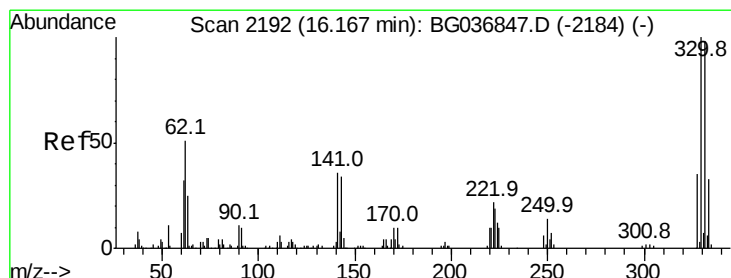
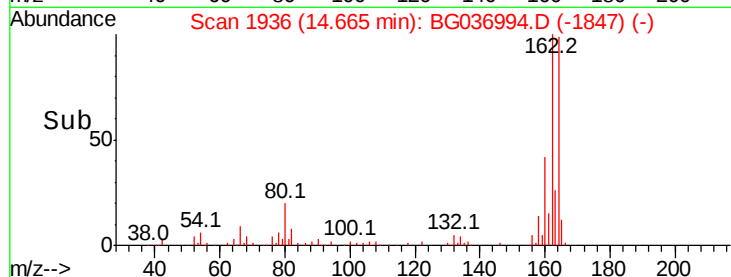
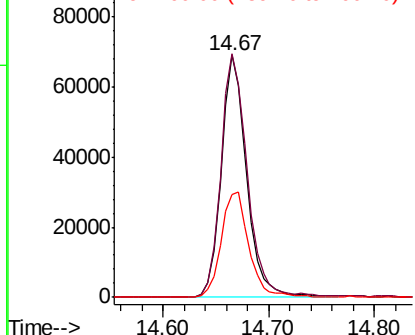
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.67 min Scan# 1936  
 Delta R.T. -0.01 min  
 Lab File: BG036994.D  
 Acq: 26 Sep 2018 23:04

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:164 Resp: 114986  
 Ion Ratio Lower Upper  
 164 100  
 162 100.6 80.7 121.1  
 160 42.4 35.3 52.9

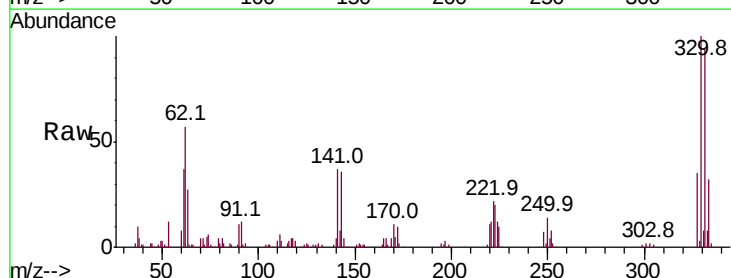


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

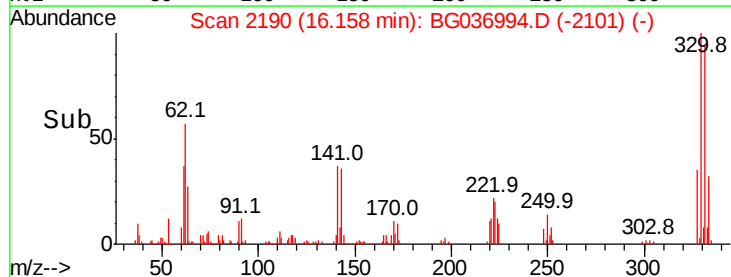
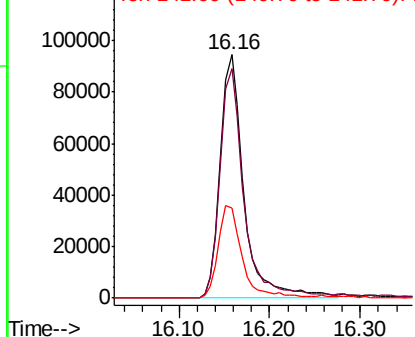


#41  
 2,4,6-Tribromophenol  
 Concen: 125.078 ng  
 RT: 16.16 min Scan# 2190  
 Delta R.T. -0.01 min  
 Lab File: BG036994.D  
 Acq: 26 Sep 2018 23:04

Tgt Ion:330 Resp: 172074  
 Ion Ratio Lower Upper  
 330 100  
 332 94.9 75.4 113.2  
 141 38.3 30.7 46.1



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

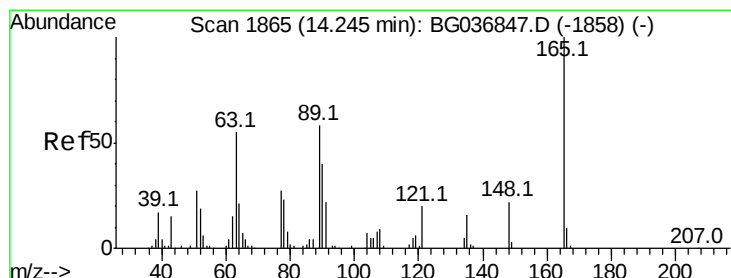
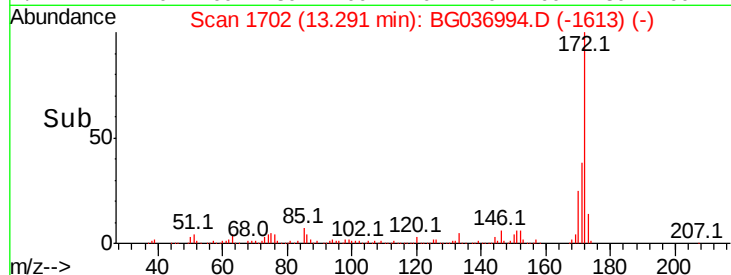
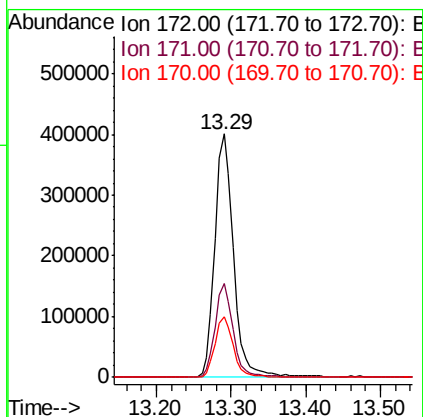
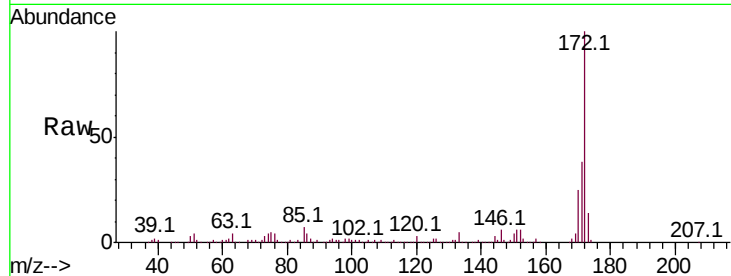




#44  
 2-Fluorobiphenyl  
 Concen: 90.526 ng  
 RT: 13.29 min Scan# 1702  
 Delta R.T. -0.01 min  
 Lab File: BG036994.D  
 Acq: 26 Sep 2018 23:04

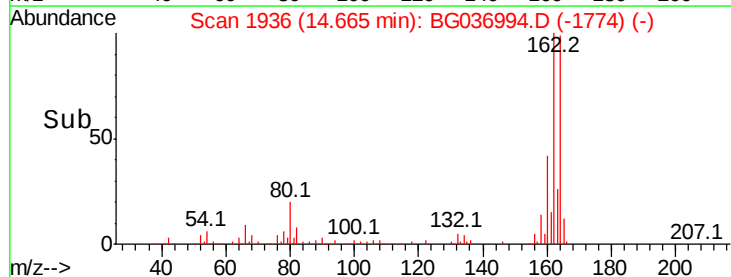
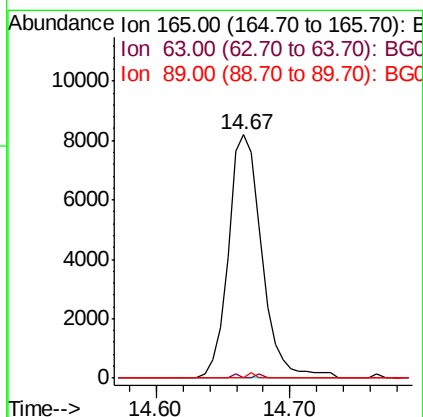
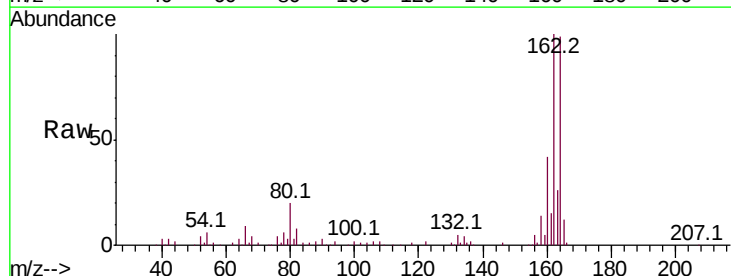
Instrument :  
 BNA\_G  
 ClientSampleId :

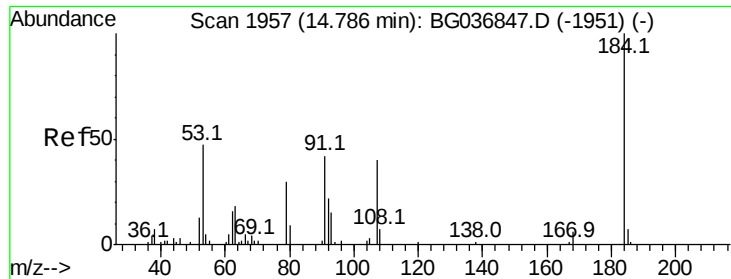
Tot Ion:172 Resp: 698888  
 Ion Ratio Lower Upper  
 172 100  
 171 38.3 31.3 46.9  
 170 24.8 21.0 31.6



#50  
 2,6-Dinitrotoluene  
 Concen: 7.105 ng  
 RT: 14.67 min Scan# 1936  
 Delta R.T. 0.42 min  
 Lab File: BG036994.D  
 Acq: 26 Sep 2018 23:04

Tgt Ion:165 Resp: 14347  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 50.1 75.1#  
 89 0.0 47.8 71.6#

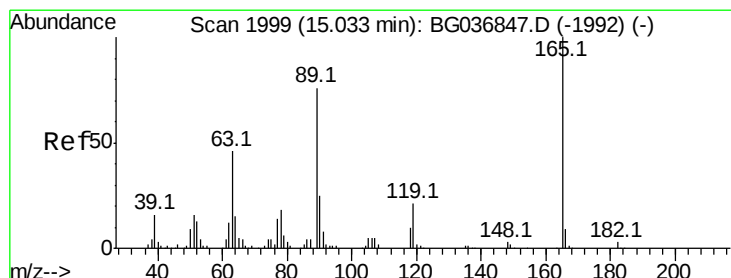
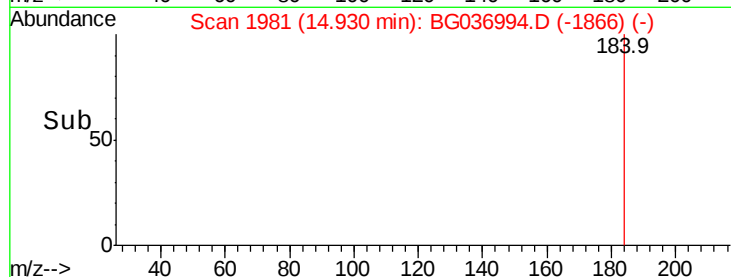
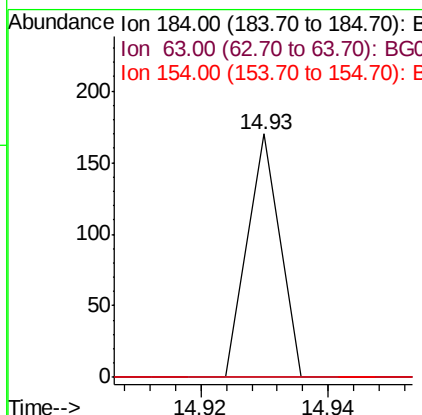
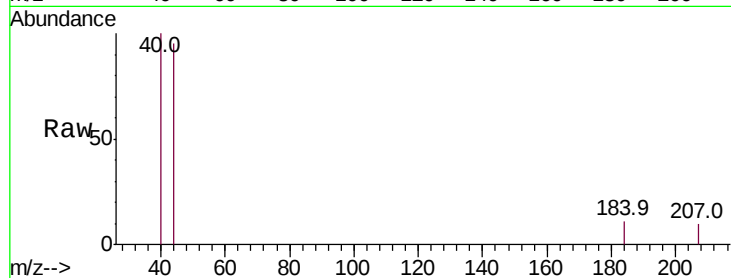




#53  
 2,4-Dinitrophenol  
 Concen: 7.707 ng  
 RT: 14.93 min Scan# 1981  
 Delta R.T. 0.14 min  
 Lab File: BG036994.D  
 Acq: 26 Sep 2018 23:04

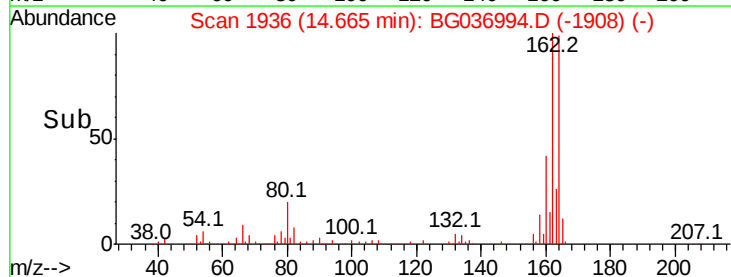
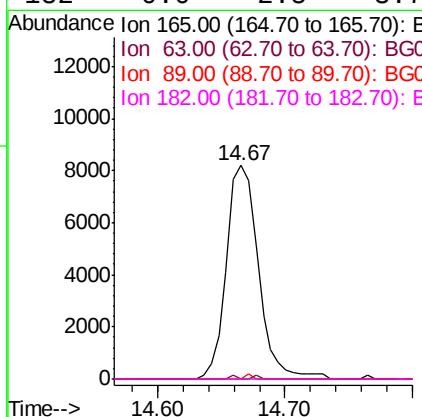
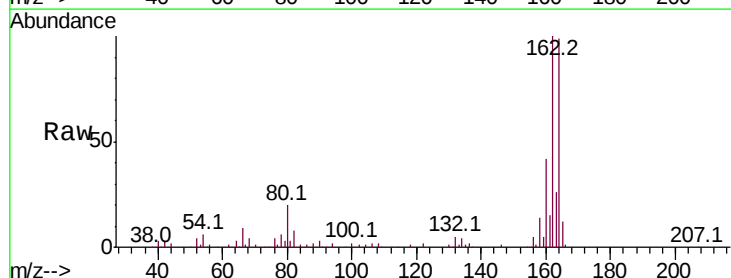
Instrument :  
 BNA\_G  
 ClientSampleId :

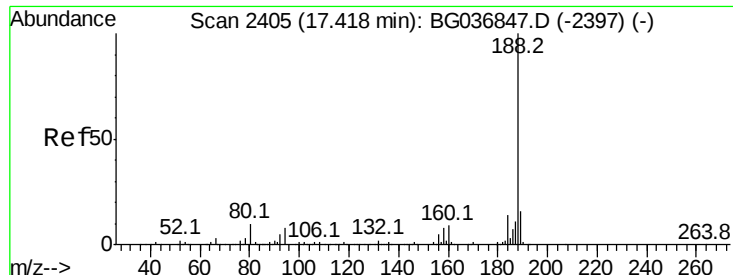
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 63      | 0.0   | 47.3  | 70.9# |
| 154     | 0.0   | 51.1  | 76.7# |



#56  
 2,4-Dinitrotoluene  
 Concen: 5.092 ng  
 RT: 14.67 min Scan# 1936  
 Delta R.T. -0.37 min  
 Lab File: BG036994.D  
 Acq: 26 Sep 2018 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 40.1  | 60.1# |
| 89      | 0.0   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2404

Delta R.T. -0.00 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

Instrument :

BNA\_G

ClientSampled :

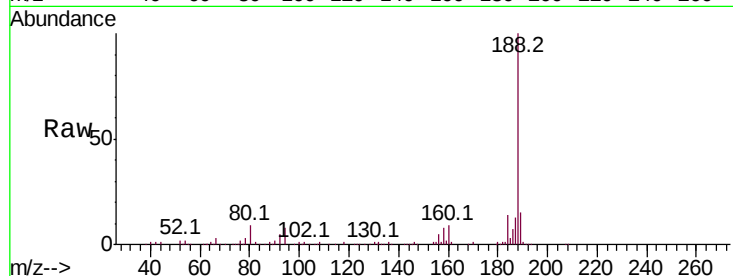
Tot Ion:188 Resp: 293634

Ion Ratio Lower Upper

188 100

94 7.9 6.7 10.1

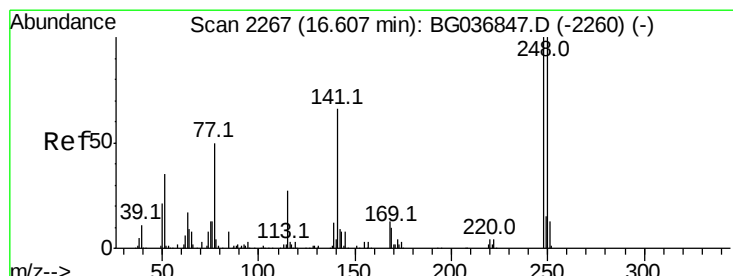
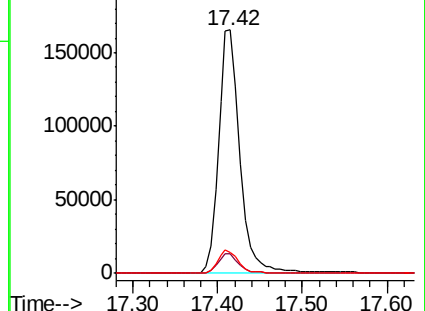
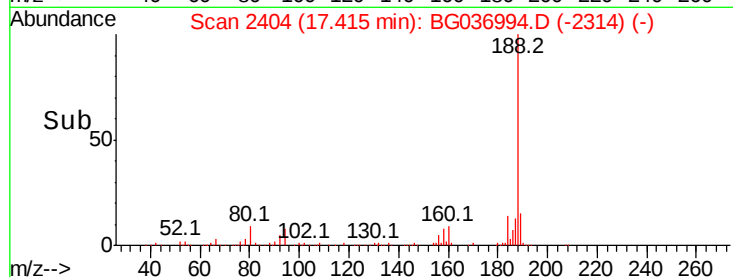
80 8.8 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#66

4-Bromophenyl-phenylether

Concen: 3.470 ng

RT: 16.16 min Scan# 2190

Delta R.T. -0.45 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

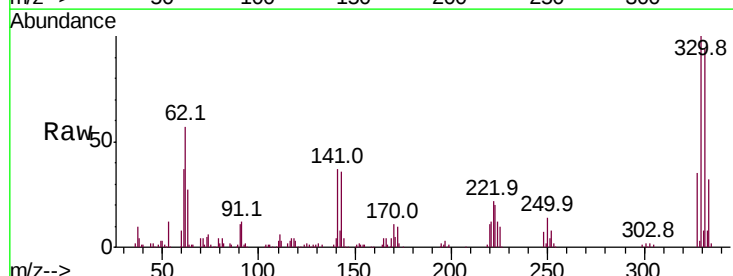
Tgt Ion:248 Resp: 11589

Ion Ratio Lower Upper

248 100

250 205.7 78.1 117.1#

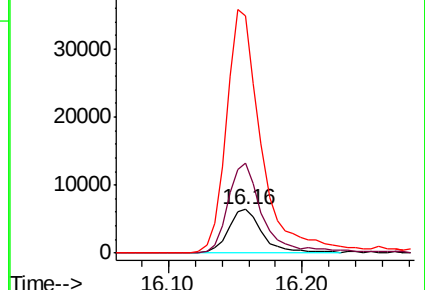
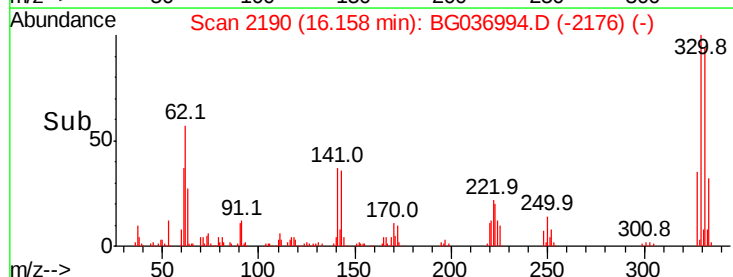
141 545.1 53.7 80.5#

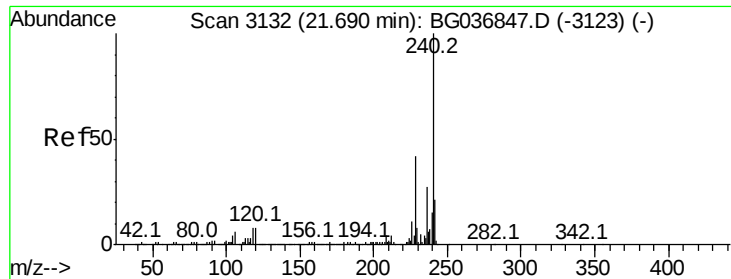


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.68 min Scan# 3130

Delta R.T. -0.01 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

Instrument :

BNA\_G

ClientSampled :

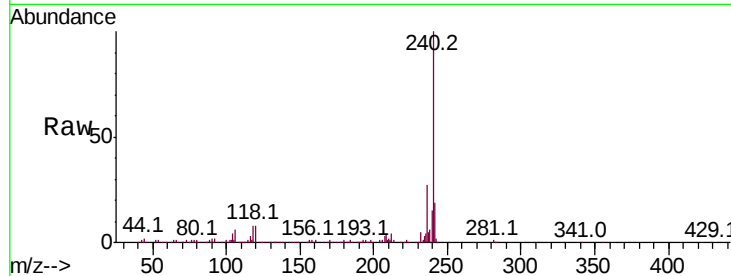
Tot Ion:240 Resp: 321355

Ion Ratio Lower Upper

240 100

120 7.7 6.9 10.3

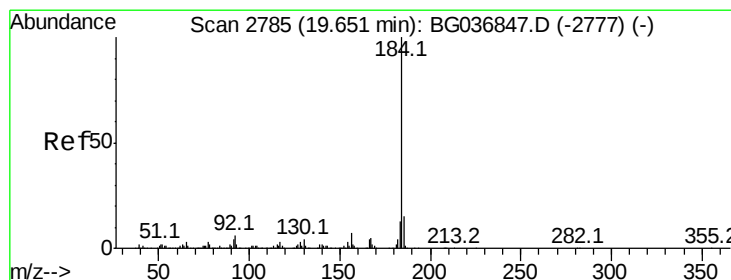
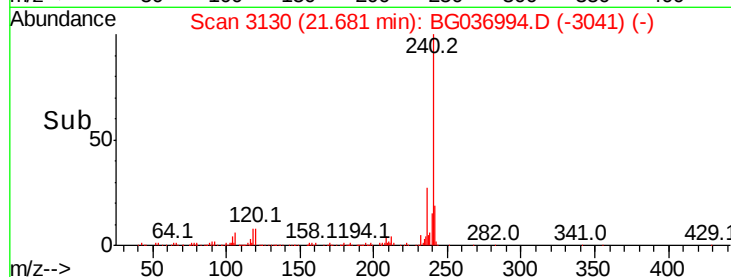
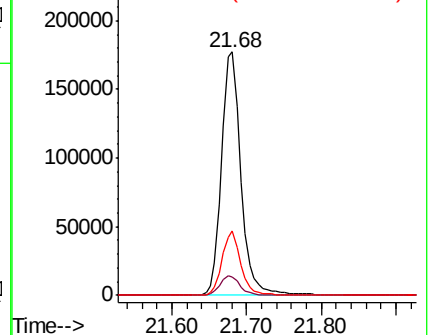
236 26.6 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 2.107 ng

RT: 20.02 min Scan# 2847

Delta R.T. 0.37 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

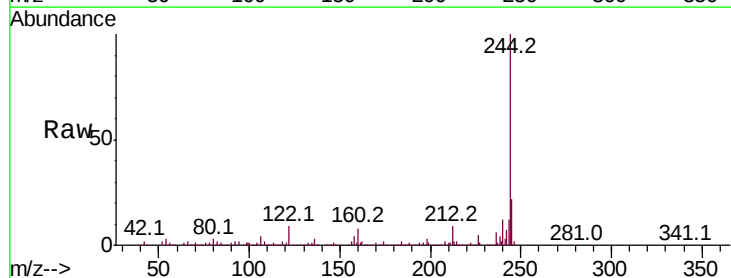
Tgt Ion:184 Resp: 20468

Ion Ratio Lower Upper

184 100

185 16.0 12.6 18.8

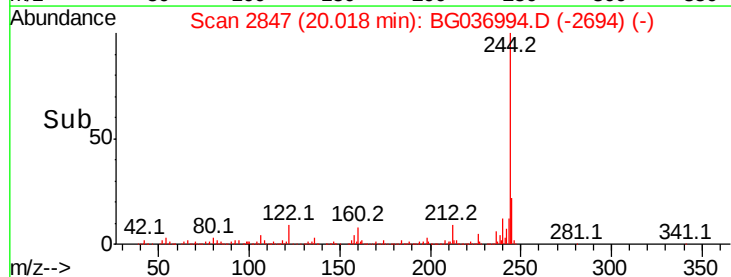
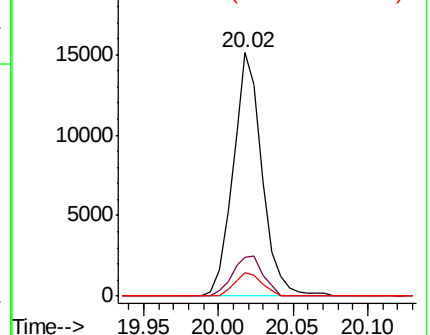
183 9.8 10.9 16.3#

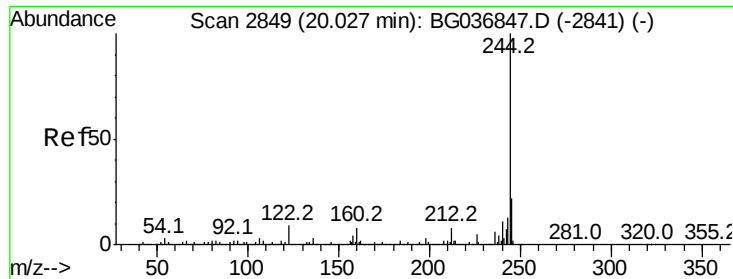


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 99.213 ng

RT: 20.02 min Scan# 2847

Delta R.T. -0.01 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

Instrument :

BNA\_G

ClientSampled :

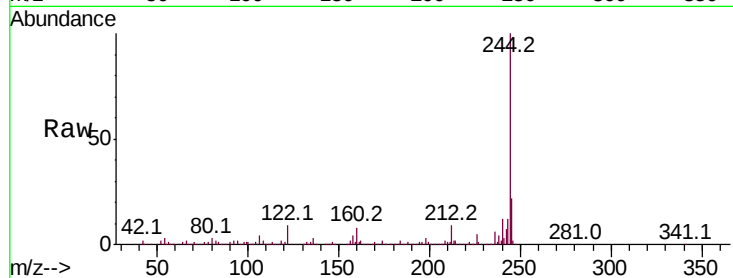
Tot Ion:244 Resp: 1212497

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.6   | 7.0   | 10.6  |
| 122 | 9.2   | 7.1   | 10.7  |

244 100

212 8.6 7.0 10.6

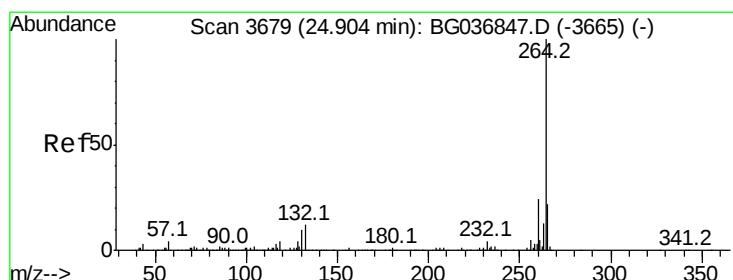
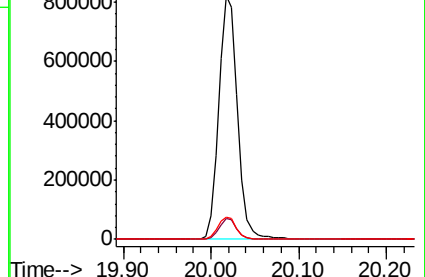
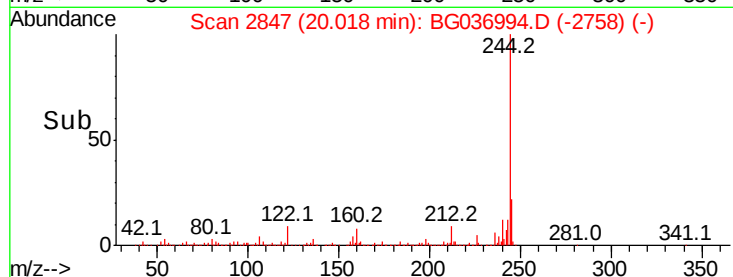
122 9.2 7.1 10.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.88 min Scan# 3675

Delta R.T. -0.02 min

Lab File: BG036994.D

Acq: 26 Sep 2018 23:04

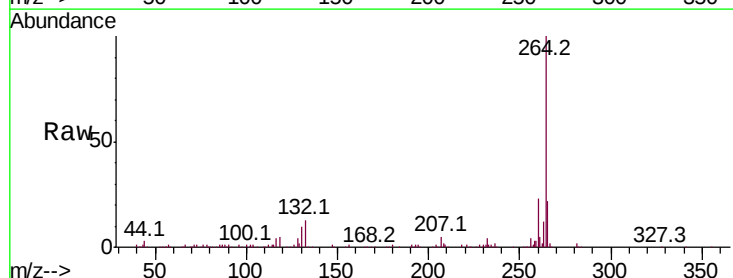
Tgt Ion:264 Resp: 307281

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 19.6  | 29.4  |
| 265 | 22.1  | 17.4  | 26.0  |

264 100

260 23.0 19.6 29.4

265 22.1 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

